forming an insulating layer over said first <u>electrically</u> conductive structure, said [conductive] <u>insulating</u> structure having an opening with sidewalls and a bottom and exposes a portion of said first conductive structure;

providing a gas comprised of hydrogen incorporated within a plasma into said opening in said insulating layer; and

depositing a conductive material into said opening using chemical vapor deposition.

- 22. The method of claim 21, wherein said gas is additionally comprised of helium.
- 23. The method of claim 21, wherein said gas is additionally comprised of argon.
- 24. The method of claim 21, wherein said conductive material is comprised of a metal selected from the group consisting of: aluminum, copper, titanium, and a combination thereof.
- 25. The method of claim 21, wherein said gas comprised of hydrogen incorporated within a plasma removed residue formed in said opening in said insulating layer.

1

Add the following claims:

2

- 26. The method of claim 21 wherein said plasma has a plasma power of from about 150 watts to about 450 watts.
  - 27. The method of claim21 wherein said plasma has a bias power up to about 300 watts.
  - 28. The method of claim 26 wherein said plasma has a bias power up to about 300 watts.
- 29. The method of claim 21 wherein said step of providing a gas into said opening is at a temperature of from about 100°C to about 450°C.
- 30. The method of claim 26 wherein said step of providing a gas into said opening is at a temperature of from about 100°C to about 450°C.